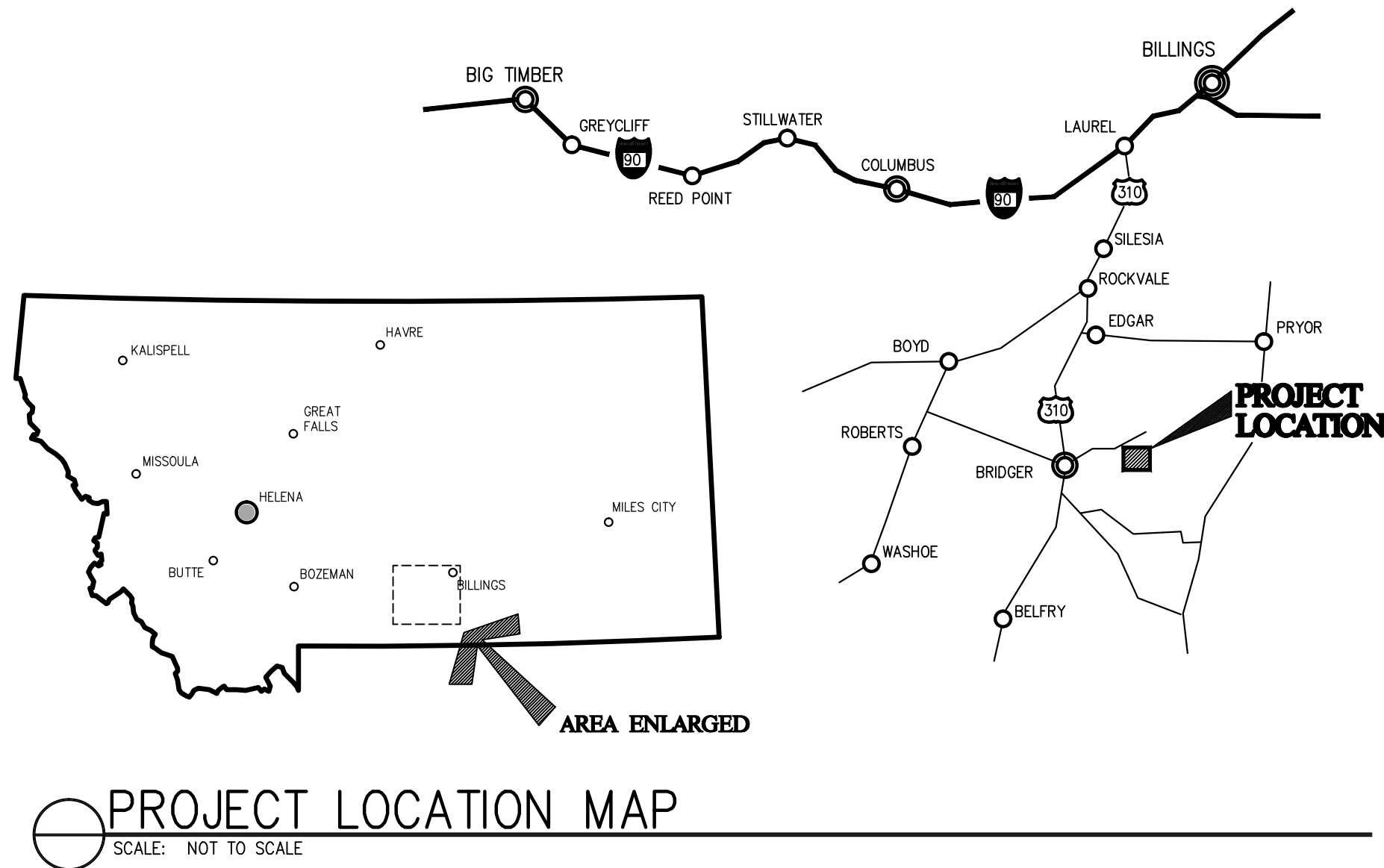


BLUEWATER TROUT HATCHERY

A/E #93-35-19

CARBON COUNTY, MONTANA



PROJECT LOCATION MAP
SCALE: NOT TO SCALE

SCHEDULE OF DRAWINGS

CIVIL	NO.	DRAWING TITLE	DATE
GENERAL			
SD0	1	SITE PLAN	20 DEC 2002
SD1	1	SITE SURFACING PLAN	20 DEC 2002
SD2	1	EXISTING SITE UTILITY PLAN	20 DEC 2002
SD3	1	COORDINATE TABLE	20 DEC 2002
SD20	1	STANDARD DETAILS	20 DEC 2002
SD30	1	SITE DEMOLITION PLAN	20 DEC 2002
SD31	1	EXISTING SITE PLAN	20 DEC 2002

CIVIL			
C-1	CIVIL ABBREVIATIONS	20 DEC 2002	
C-2	CIVIL LEGEND	20 DEC 2002	
C-3	HYDRAULIC PROFILE	20 DEC 2002	
C-4	YARD PAVING I	20 DEC 2002	
C-5	YARD PAVING II	20 DEC 2002	
C-6	PIPE & VALVE SCHEDULE	20 DEC 2002	
C-7	SITE GRADING PLAN	20 DEC 2002	
C-8	FIRST PASS AERATION TO SPRING	20 DEC 2002	
C-9	RACEWAY TO FIRST PASS AERATION	20 DEC 2002	
C-10	HATCHERY TO FIRST PASS AERATION	20 DEC 2002	
C-11	HATCHERY BYPASS P&P	20 DEC 2002	
C-12	RACEWAY HEADER P&P AND HEADER DRAIN	20 DEC 2002	
C-13	NORMAL OPERATING DISCHARGE DRAIN	20 DEC 2002	
C-14	WASTE DISCHARGE P&P	20 DEC 2002	
C-15	HATCHERY RISE TO LOWER RACEWAY P&P	20 DEC 2002	
C-16	SETTLING BASIN DRAIN	20 DEC 2002	
C-17	SEPTIC SYSTEM PLAN	20 DEC 2002	
C-18	SANITARY SEWER LIFT STATION PLAN	20 DEC 2002	
C-19	SANITARY SEWER LIFT STATION SECTION	20 DEC 2002	
C-20	SANITARY SEWER DORSING STATION PLAN	20 DEC 2002	
C-21	SANITARY SEWER DORSING STATION SECTION	20 DEC 2002	
C-22	SEPTIC SYSTEM SAND MOUND	20 DEC 2002	
C-23	SEPTIC SYSTEM DETAILS	20 DEC 2002	
C-24	CIVIL DETAILS I	20 DEC 2002	
C-25	CIVIL DETAILS II	20 DEC 2002	

CIVIL - MECHANICAL			
CM-1	INTAKE SCREENING STRUCTURE	20 DEC 2002	
CM-2	FIRST PASS AERATION STRUCTURE	20 DEC 2002	
CM-3	HATCHERY AERATION STRUCTURE	20 DEC 2002	
CM-4	RACEWAY AERATION PLANS & SECTIONS	20 DEC 2002	
CM-5	AERATION COLUMN DETAILS	20 DEC 2002	
CM-6	UPPER RACEWAY WEIWEILL	20 DEC 2002	
CM-7	HATCHERY BUILDING PIPING PLAN	20 DEC 2002	
CM-8	HATCHERY BUILDING PIPING DETAILS I	20 DEC 2002	
CM-9	HATCHERY BUILDING PIPING DETAILS II	20 DEC 2002	
CM-10	HATCHERY BUILDING PIPING DETAILS III	20 DEC 2002	

CIVIL	NO.	DRAWING TITLE	DATE
CIVIL - MECHANICAL (CONT'D)			
CM-11	HATCHERY BUILDING PIPING DETAILS IV	20 DEC 2002	
CM-12	UPPER & LOWER RACEWAY BANDS	20 DEC 2002	
CM-13	TYPICAL RACEWAY PROFILE	20 DEC 2002	
CM-14	RACEWAY DETAILS	20 DEC 2002	
CM-15	RACEWAY DISCHARGE CANAL	20 DEC 2002	
CM-16	RACEWAY OUTLET TROUGH	20 DEC 2002	
CM-17	RACEWAY OUTLET SECTION	20 DEC 2002	
CM-18	RACEWAY BAYWHEEL & SCREENS	20 DEC 2002	
CM-19	ARTISIAN WELL PIPING PLAN	20 DEC 2002	
CM-20	ARTISIAN WELL PIPING DETAILS	20 DEC 2002	
CM-21	HATCHERY WASTE LIFT STATION PLAN	20 DEC 2002	
CM-22	HATCHERY WASTE LIFT STATION	20 DEC 2002	
CM-23	HATCHERY WASTE LIFT STATION SECTIONS	20 DEC 2002	
CM-24	HATCHERY WASTE LIFT STATION DETAILS	20 DEC 2002	
CM-25	DOMESTIC WATER TREATMENT SYSTEM	20 DEC 2002	

CIVIL - STRUCTURAL			
CS-1	SPRING OVERFLOW STRUCTURE	20 DEC 2002	
CS-2	INTAKE SCREENING STRUCTURAL PLAN	20 DEC 2002	
CS-3	FIRST PASS AERATION STRUCTURAL PLAN	20 DEC 2002	
CS-4	HATCHERY AERATION STRUCTURAL PLAN	20 DEC 2002	
CS-5	AERATION COLUMN SUPPORTS	20 DEC 2002	
CS-6	UPPER RACEWAY WEIWEILL STRUCTURE	20 DEC 2002	
CS-7	RACEWAY STRUCTURAL DETAILS	20 DEC 2002	
CS-8	SETTLING BASIN PLAN	20 DEC 2002	
CS-9	SETTLING BASINS	20 DEC 2002	
CS-10	BLEWATER SPRING COVER	20 DEC 2002	
CS-11	SPRING COVER FOUNDATION PLAN	20 DEC 2002	
CS-12	SPRING COVER ELEVATIONS & DETAILS I	20 DEC 2002	
CS-13	SPRING COVER ELEVATIONS & DETAILS II	20 DEC 2002	
CS-14	SPRING COVER TYPICAL SECTIONS I	20 DEC 2002	
CS-15	SPRING COVER TYPICAL SECTIONS II	20 DEC 2002	
CS-16	SPRING COVER DETAILS III	20 DEC 2002	
CS-17	STRUCTURAL DETAILS	20 DEC 2002	
CS-18	SAN. SEW. DORSING STATION STRUCTURAL	20 DEC 2002	
CS-19	WASTE DISCHARGE LIFT STATION STRUCTURAL PLAN	20 DEC 2002	

CIVIL - ELECTRICAL			
CE-1	HATCHERY LIFT STATION PUMP LOGIC	20 DEC 2002	
CE-2	SAN. SEW. LIFT STATION PUMP LOGIC	20 DEC 2002	
CE-3	MISCELLANEOUS ELECTRICAL DETAILS	20 DEC 2002	

STRUCTURAL	NO.	DRAWING TITLE	DATE
S-1	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-2	FOUNDATION PLAN	20 DEC 2002	
S-3	ROOF FRAMING PLAN	20 DEC 2002	
S-4	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-5	CEILING FRAMING DETAILS	20 DEC 2002	
S-6	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-7	FRAMING DETAILS	20 DEC 2002	
S-8	FRAMING DETAILS	20 DEC 2002	

STRUCTURAL			
S-9	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-10	FOUNDATION PLAN	20 DEC 2002	
S-11	ROOF FRAMING PLAN	20 DEC 2002	
S-12	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-13	CEILING FRAMING DETAILS	20 DEC 2002	
S-14	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-15	FRAMING DETAILS	20 DEC 2002	
S-16	FRAMING DETAILS	20 DEC 2002	
S-17	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-18	FOUNDATION PLAN	20 DEC 2002	
S-19	ROOF FRAMING PLAN	20 DEC 2002	
S-20	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-21	CEILING FRAMING DETAILS	20 DEC 2002	
S-22	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-23	FRAMING DETAILS	20 DEC 2002	
S-24	FRAMING DETAILS	20 DEC 2002	
S-25	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-26	FOUNDATION PLAN	20 DEC 2002	
S-27	ROOF FRAMING PLAN	20 DEC 2002	
S-28	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-29	CEILING FRAMING DETAILS	20 DEC 2002	
S-30	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-31	FRAMING DETAILS	20 DEC 2002	
S-32	FRAMING DETAILS	20 DEC 2002	
S-33	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-34	FOUNDATION PLAN	20 DEC 2002	
S-35	ROOF FRAMING PLAN	20 DEC 2002	
S-36	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-37	CEILING FRAMING DETAILS	20 DEC 2002	
S-38	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-39	FRAMING DETAILS	20 DEC 2002	
S-40	FRAMING DETAILS	20 DEC 2002	
S-41	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-42	FOUNDATION PLAN	20 DEC 2002	
S-43	ROOF FRAMING PLAN	20 DEC 2002	
S-44	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-45	CEILING FRAMING DETAILS	20 DEC 2002	
S-46	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-47	FRAMING DETAILS	20 DEC 2002	
S-48	FRAMING DETAILS	20 DEC 2002	
S-49	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-50	FOUNDATION PLAN	20 DEC 2002	
S-51	ROOF FRAMING PLAN	20 DEC 2002	
S-52	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-53	CEILING FRAMING DETAILS	20 DEC 2002	
S-54	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-55	FRAMING DETAILS	20 DEC 2002	
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S-57	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
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S-59	ROOF FRAMING PLAN	20 DEC 2002	
S-60	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-61	CEILING FRAMING DETAILS	20 DEC 2002	
S-62	FOUNDATION WALL SECTIONS	20 DEC 2002	
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S-65	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
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S-67	ROOF FRAMING PLAN	20 DEC 2002	
S-68	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-69	CEILING FRAMING DETAILS	20 DEC 2002	
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S-73	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-74	FOUNDATION PLAN	20 DEC 2002	
S-75	ROOF FRAMING PLAN	20 DEC 2002	
S-76	TRUSS & WALL ELEVATIONS	20 DEC 2002	
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S-81	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-82	FOUNDATION PLAN	20 DEC 2002	
S-83	ROOF FRAMING PLAN	20 DEC 2002	
S-84	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-85	CEILING FRAMING DETAILS	20 DEC 2002	
S-86	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-87	FRAMING DETAILS	20 DEC 2002	
S-88	FRAMING DETAILS	20 DEC 2002	
S-89	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
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S-91	ROOF FRAMING PLAN	20 DEC 2002	
S-92	TRUSS & WALL ELEVATIONS	20 DEC 2002	
S-93	CEILING FRAMING DETAILS	20 DEC 2002	
S-94	FOUNDATION WALL SECTIONS	20 DEC 2002	
S-95	FRAMING DETAILS	20 DEC 2002	
S-96	FRAMING DETAILS	20 DEC 2002	
S-97	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-98	FOUNDATION PLAN	20 DEC 2002	
S-99	ROOF FRAMING PLAN	20 DEC 2002	
S-100	TRUSS & WALL ELEVATIONS	20 DEC 2002	

STRUCTURAL			
S-1	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
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S-3	ROOF FRAMING PLAN	20 DEC 2002	
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S-97	STRUCTURAL NOTES & DETAILS	20 DEC 2002	
S-98	FOUNDATION PLAN	20 DEC 2002	
S-99	ROOF FRAMING PLAN	20 DEC 2002	
S-100	TRUSS & WALL ELEVATIONS	20 DEC 2002	

STRUCTURAL NOTES

REINFORCING STEEL SHALL CONFORM TO ASTM A615 GRADE 60, $f_y = 60,000$ PSI.			
REINFORCING STEEL MAY BE WELDED ONLY IF PROPERLY REINFORCED TO MAINTAIN CONFORMANCE WITH WELDING PROCEDURES SPECIFIED IN A.W.S. D-1 ARE SUBMITTED.			
WELDED REBAR SHALL CONFORM TO ASTM A-185			
REINFORCING STEEL SHALL BE DETAIL IN ACCORDANCE WITH ACI 315-80 AND ACI 315-89. LAP ALL CONTINUOUS REINFORCEMENT 30 BAR DIAMETERS OR 2'-0" MINIMUM. PROVIDE PROPER LAPS AND REINFORCEMENTS OF CORNERS AND WALLS. LAP CORNER BARS 30 BAR DIAMETERS OR 2'-0" MINIMUM. LAP ADJACENT WALLS 30 BAR DIAMETERS OR 2'-0" MINIMUM.			
BARS PARTIALLY EMBEDDED IN HARDENED CONCRETE SHALL NOT BE FIELD JOINT UNLESS SPECIFICALLY SO DETAIL OR APPROVED BY THE ARCHITECT			
MINIMUM PROTECTION FOR REINFORCING STEEL IN CASE OF PLACEMENT CONCRETE SHALL BE:			
PERMANENTLY EXPOSED TO EARTH			3 INCHES
CONCRETE EXPOSED TO WEATHER OR IN CONTACT WITH GROUND			2 INCHES
WELDED REBAR EXPOSED TO WEATHER OR IN CONTACT WITH GROUND			1 1/2 INCHES
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND			1 INCH
SLABS, MILLS AND JOISTS	NO. 14 - NO. 18 BAR		1 1/2 INCHES
	NO. 18 BAR AND SMALLER		2 1/4 INCHES
BEAMS AND COLUMNS	NO. 14 - NO. 18 BAR		1 1/2 INCHES
	NO. 18 BAR AND SMALLER		2 1/4 INCHES

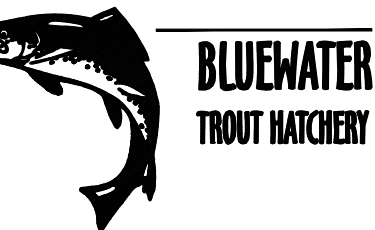
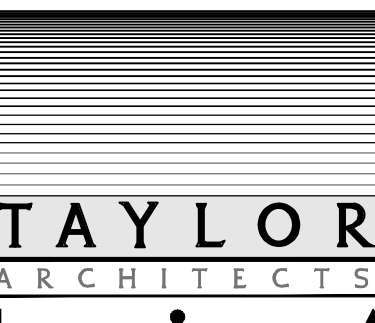


PLOT INFORMATION
BW9C028A

DRAWING: HYDRAULIC PROFILE

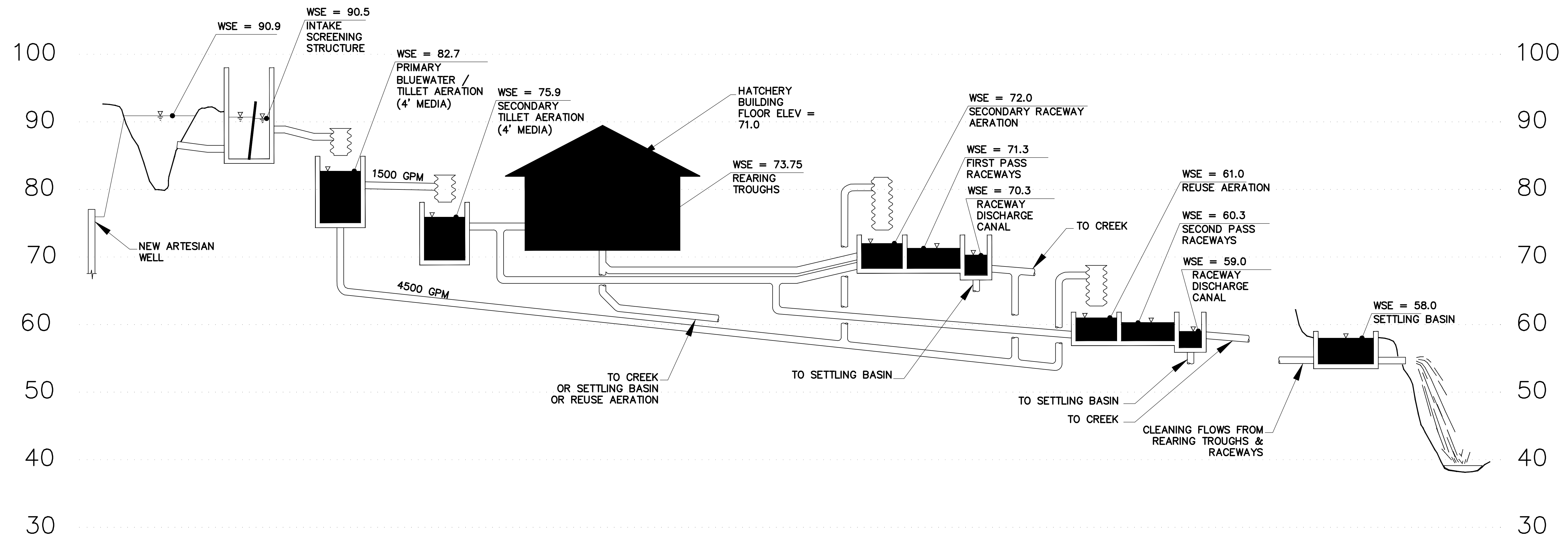
PROJECT: BLUEWATER TROUT HATCHERY
BRIDGE, MONTANA

OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS

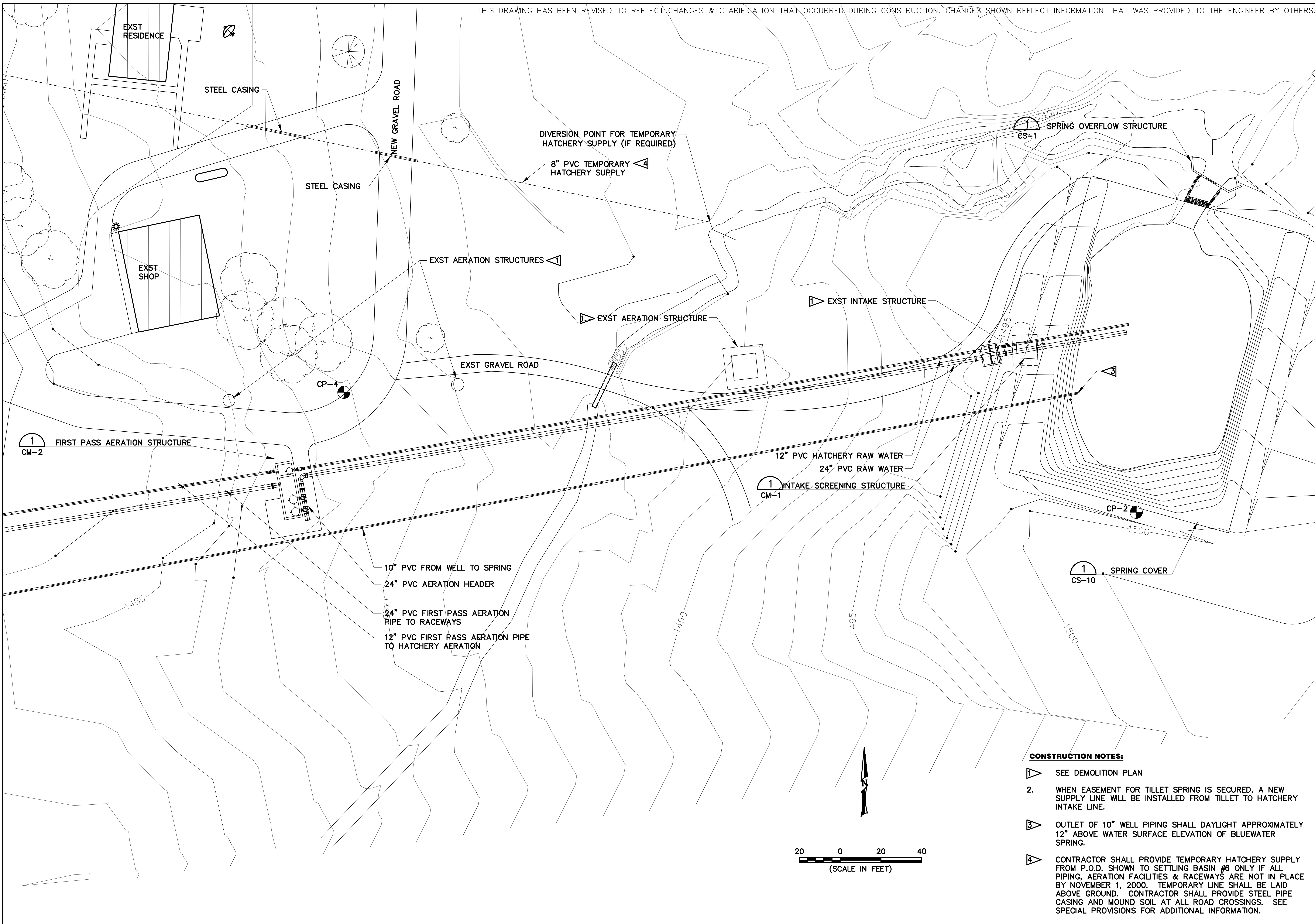


(406) 586-7020
FAX
(406) 586-8470

C-3

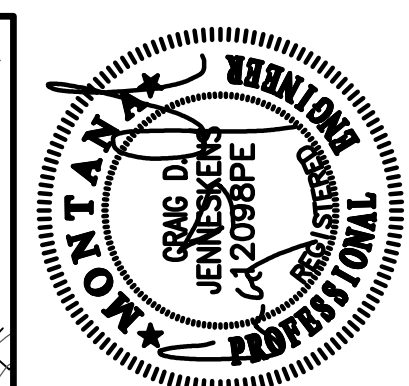


THIS DRAWING HAS BEEN REVISED TO REFLECT CHANGES & CLARIFICATION THAT OCCURRED DURING CONSTRUCTION. CHANGES SHOWN REFLECT INFORMATION THAT WAS PROVIDED TO THE ENGINEER BY OTHERS.



CONSTRUCTION NOTES:

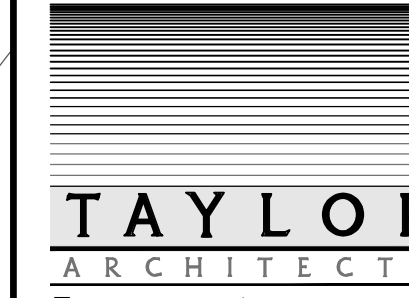
- SEE DEMOLITION PLAN
- WHEN EASEMENT FOR TILLET SPRING IS SECURED, A NEW SUPPLY LINE WILL BE INSTALLED FROM TILLET TO HATCHERY INTAKE LINE.
- OUTLET OF 10" WELL PIPING SHALL DAYLIGHT APPROXIMATELY 12" ABOVE WATER SURFACE ELEVATION OF BLUEWATER SPRING.
- CONTRACTOR SHALL PROVIDE TEMPORARY HATCHERY SUPPLY FROM P.O.D. SHOWN TO SETTLING BASIN #6 ONLY IF ALL PIPING, AERATION FACILITIES & RACEWAYS ARE NOT IN PLACE BY NOVEMBER 1, 2000. TEMPORARY LINE SHALL BE LAID ABOVE GROUND. CONTRACTOR SHALL PROVIDE STEEL PIPE CASING AND MOUND SOIL AT ALL ROAD CROSSINGS. SEE SPECIAL PROVISIONS FOR ADDITIONAL INFORMATION.



ISSUE	DATE
AS-BUILT SET	DEC. 2002
PROJECT	NUMBER
BW9C027A	9444

PLOT INFORMATION
BW9C027A

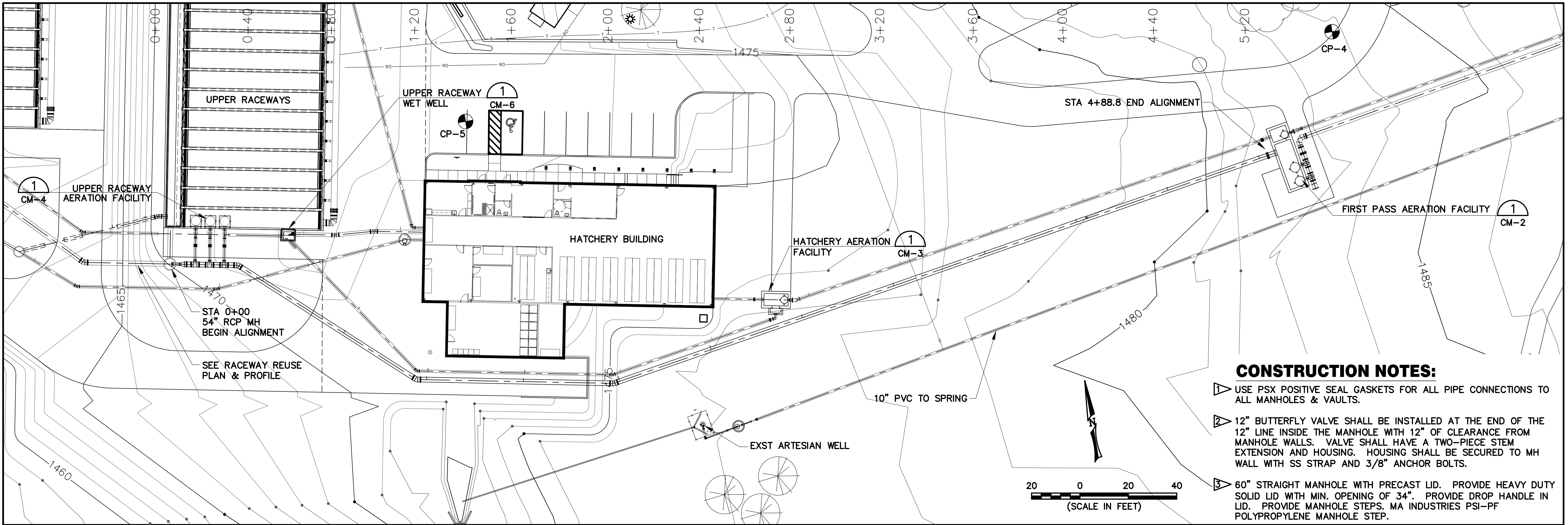
DRAWING: YARD PIPING I
PROJECT: BLUEWATER TROUT HATCHERY BOZEMAN, MONTANA
OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS



32406 FRONTAGE ROAD
BOZEMAN, MONTANA 59715
(406) 586-7020
FAX
(406) 586-8470

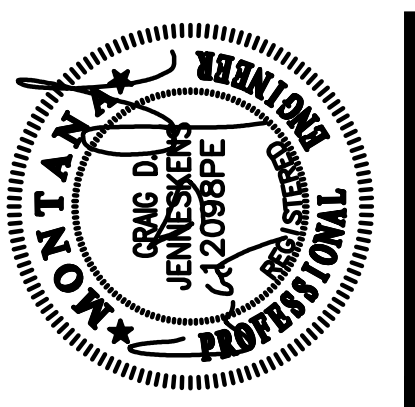
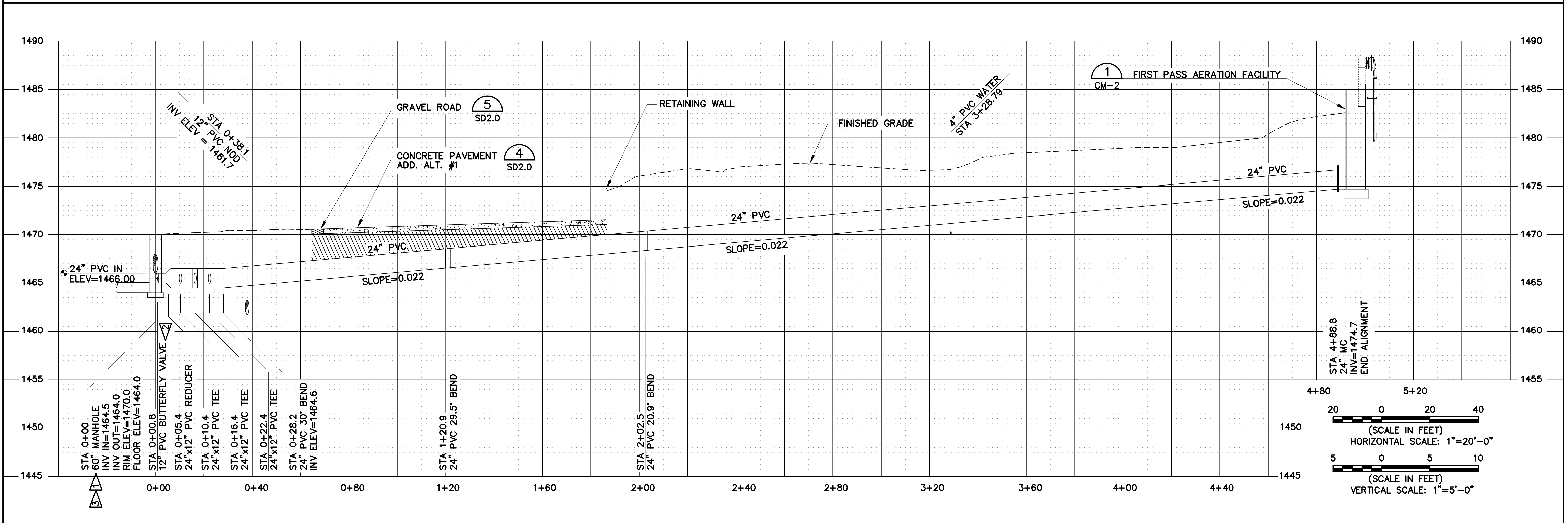
A/E 93-35-19

C-4



THIS DRAWING HAS BEEN REVISED TO REFLECT CHANGES & CLARIFICATION THAT OCCURRED DURING CONSTRUCTION. CHANGES SHOWN REFLECT INFORMATION THAT WAS PROVIDED TO THE ENGINEER BY OTHERS.

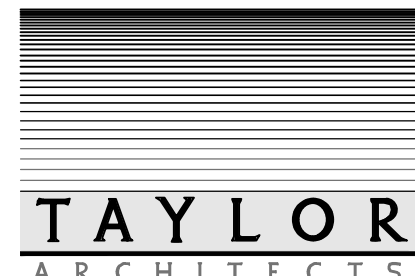
FIRST PASS AERATION TO UPPER BANK RACEWAY AERATION



ISSUE	DATE
AS-BUILT SET	DEC. 2002
PROJECT	NUMBER
	9444

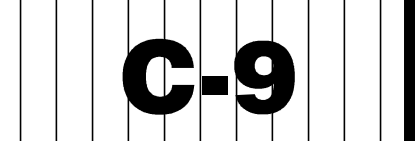
PLOT INFORMATION
BW9C018A

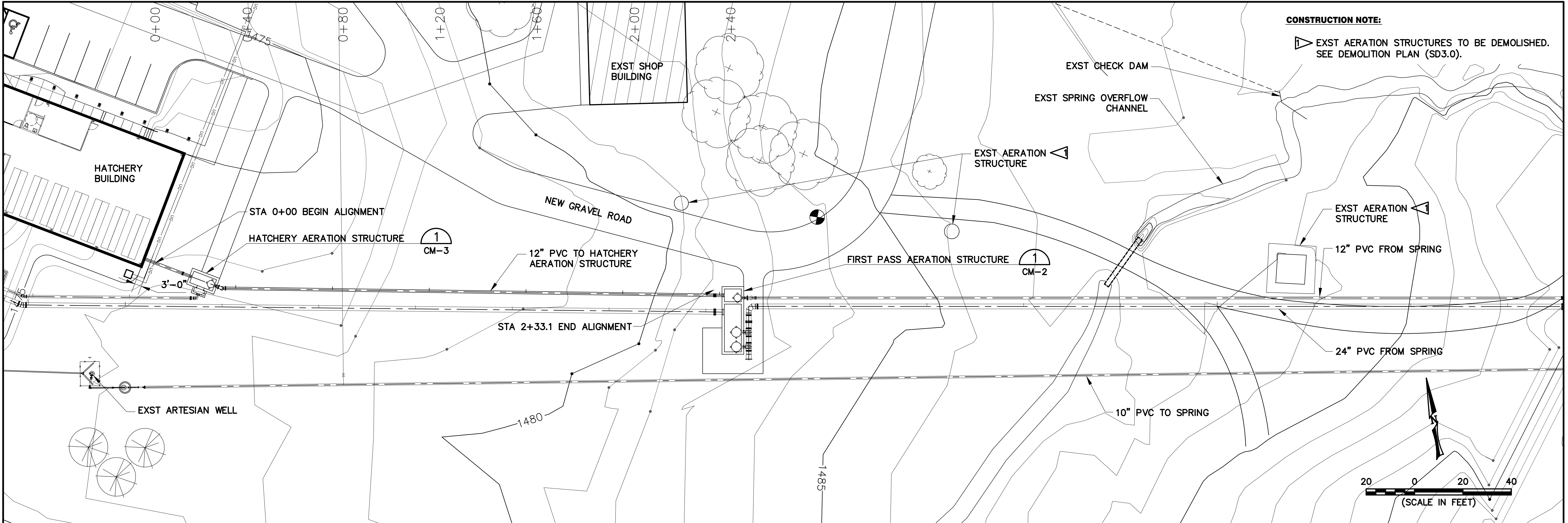
DRAWING: RACEWAY TO FIRST PASS AERATION
 PROJECT: BLUEWATER TROUT HATCHERY
 BRIDGE, MONTANA
 OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS



32406 FRONTAGE ROAD
 BOZEMAN, MONTANA 59715
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A/E 93-35-19



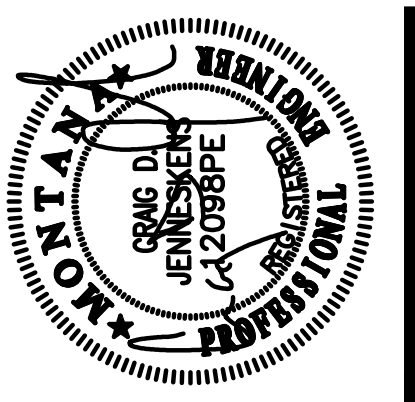
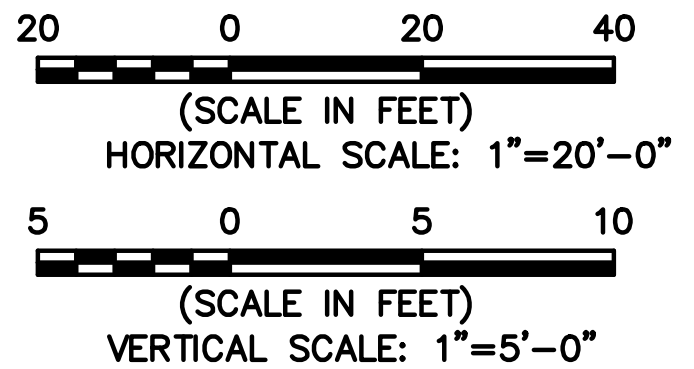
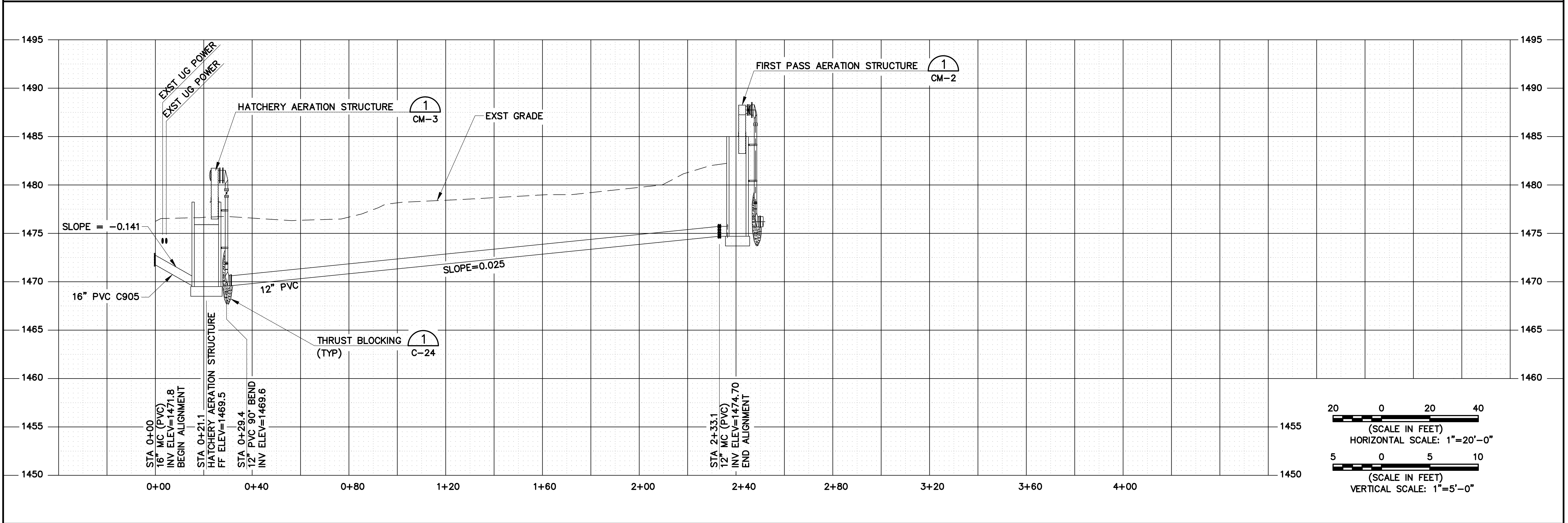


CONSTRUCTION NOTE:
▷ EXST AERATION STRUCTURES TO BE DEMOLISHED.
SEE DEMOLITION PLAN (SD3.0).



FIRST PASS AERATION TO HATCHERY AERATION

THIS DRAWING HAS BEEN REVISED TO REFLECT CHANGES & CLARIFICATION THAT OCCURRED DURING CONSTRUCTION. CHANGES SHOWN REFLECT INFORMATION THAT WAS PROVIDED TO THE ENGINEER BY OTHERS.

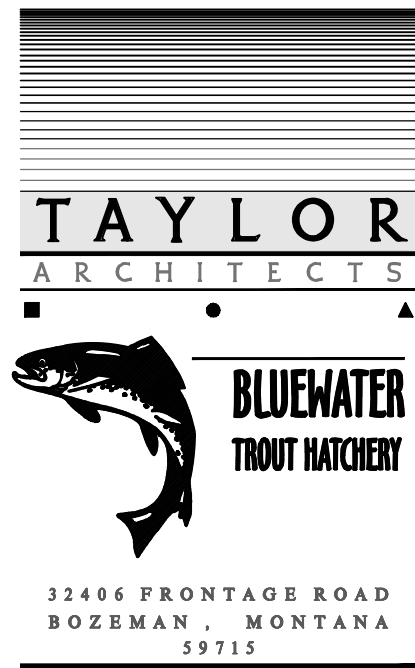


ISSUE	DATE
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	9444

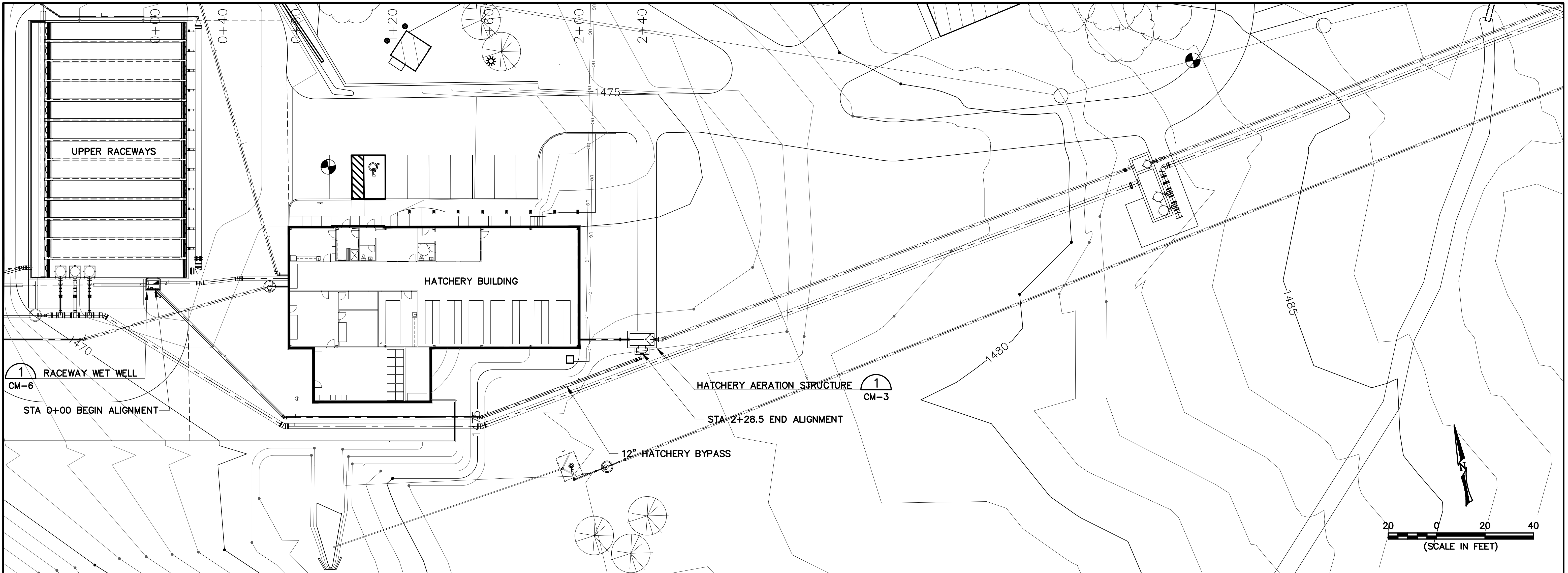
PLOT INFORMATION
BW9C016A

DRAWING: HATCHERY TO FIRST PASS AERATION
PROJECT: BLUEWATER TROUT HATCHERY
OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS



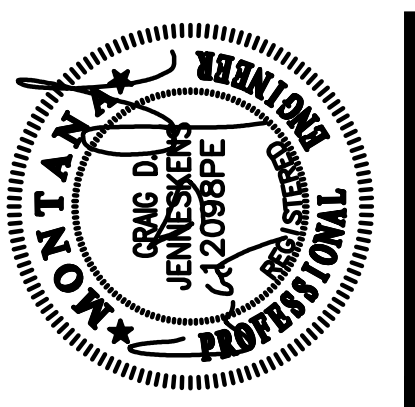
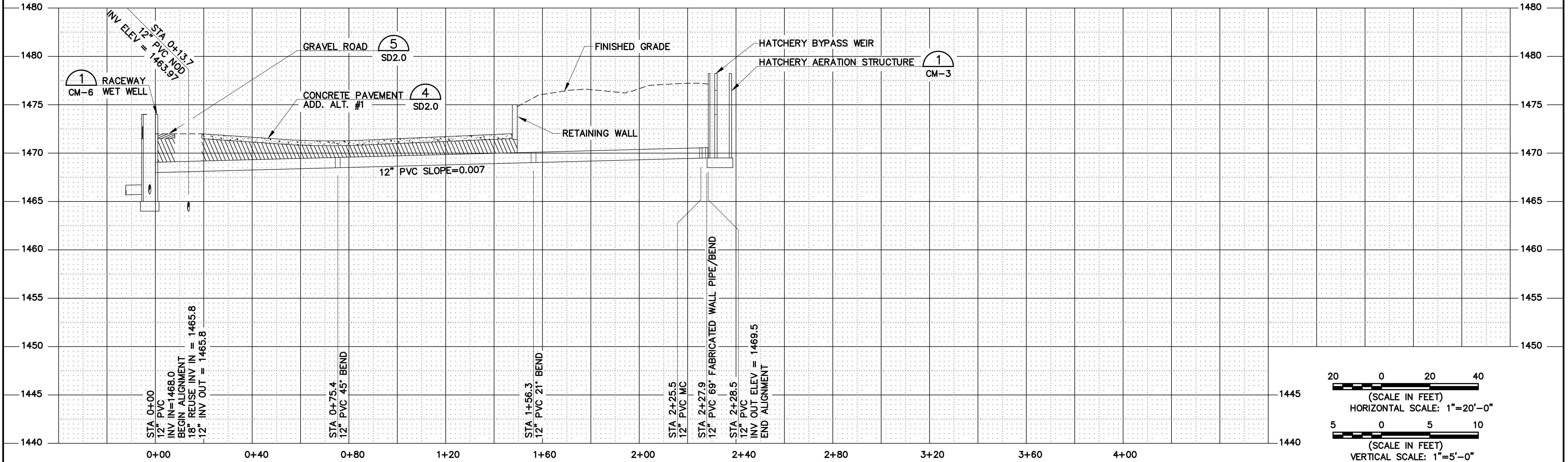
32406 FRONTAGE ROAD
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HATCHERY AERATION BYPASS / OVERFLOW

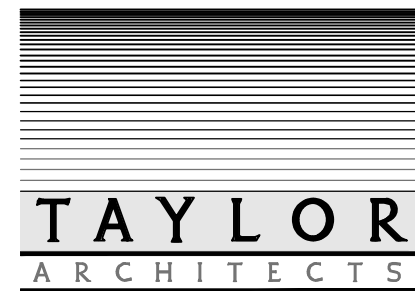
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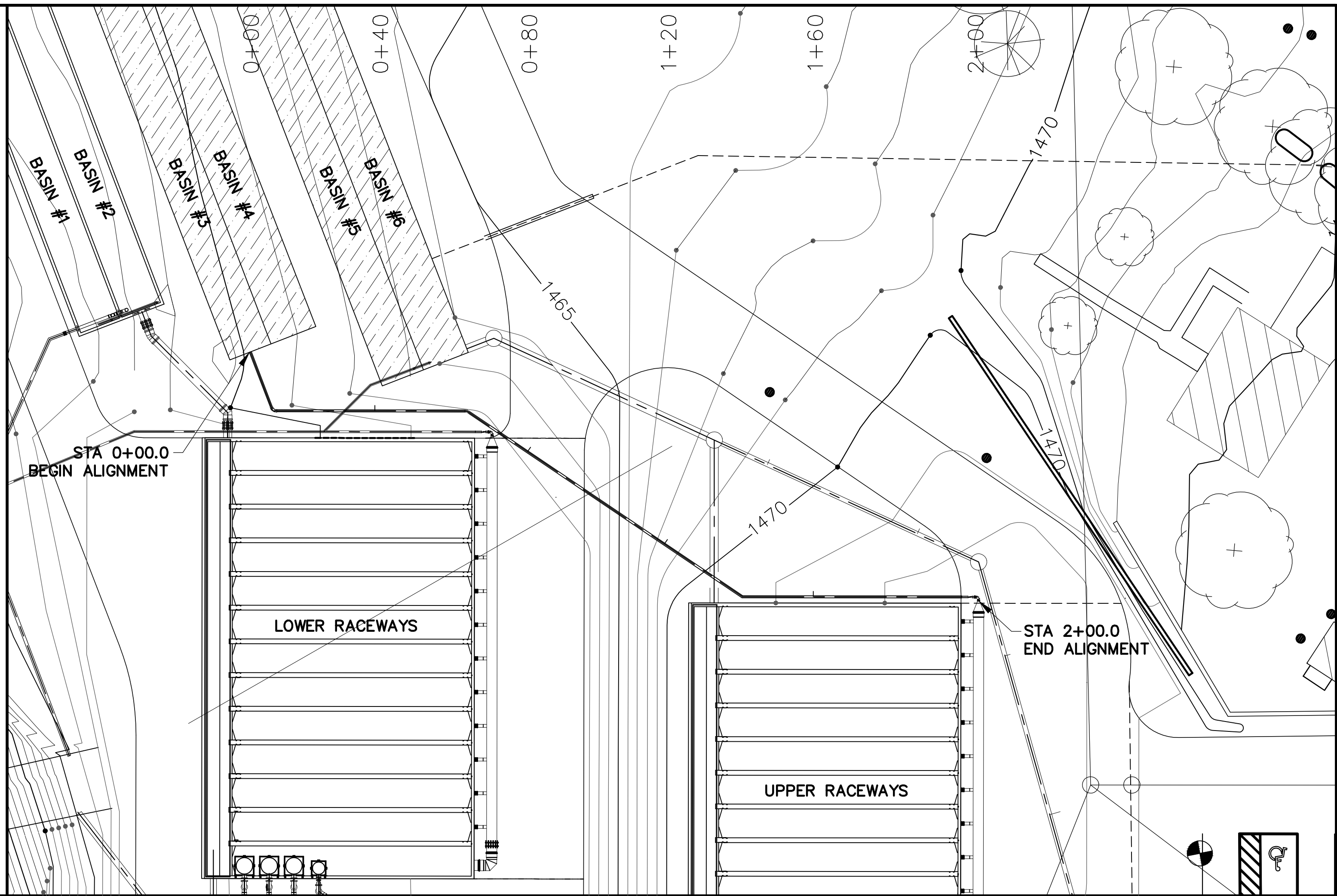
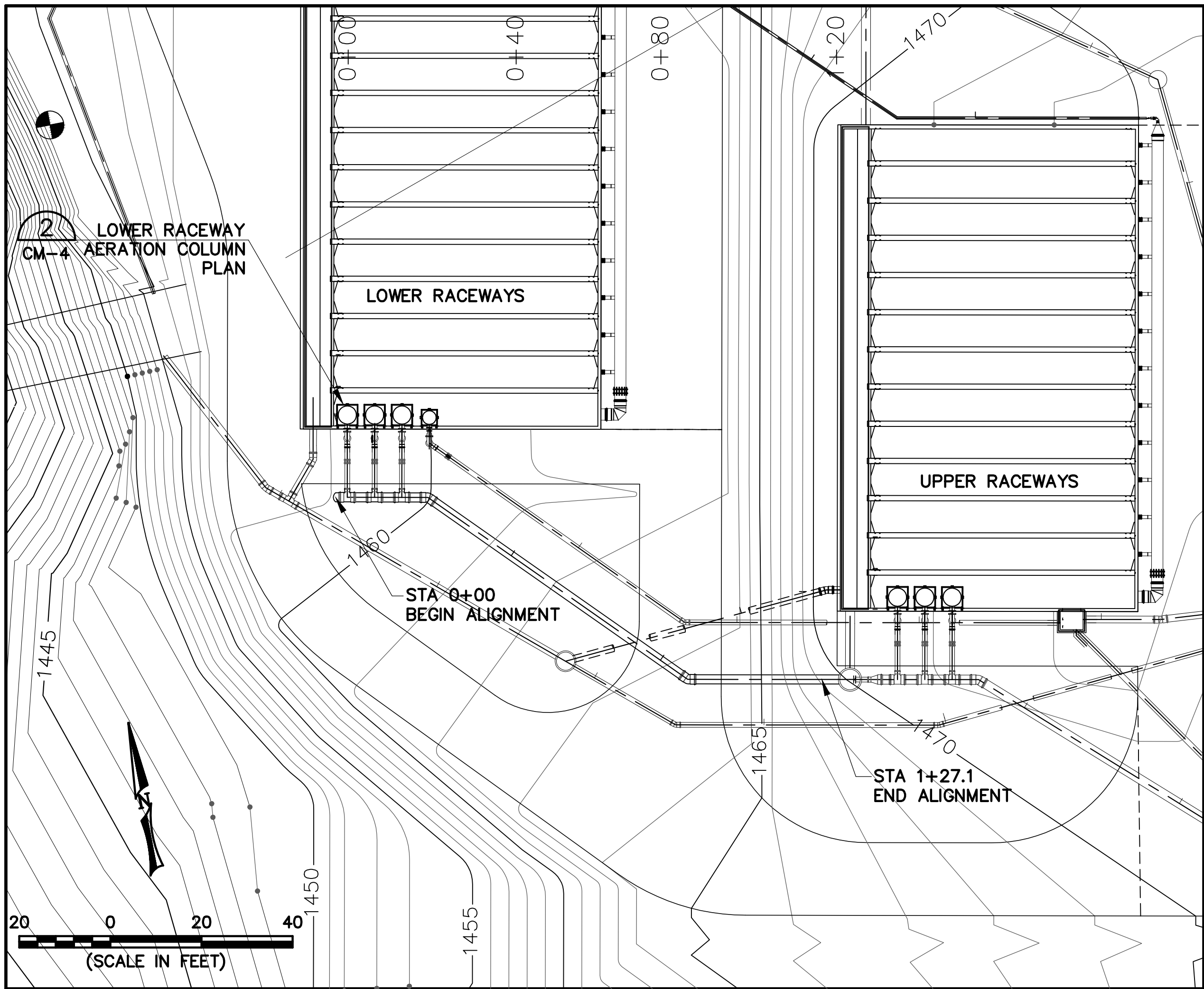
PLOT INFORMATION
BW9C021A

DRAWING: HATCHERY BYPASS PLAN & PROFILE
PROJECT: BLUEWATER TROUT HATCHERY
OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS



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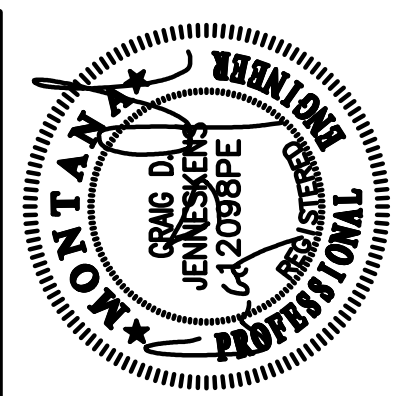
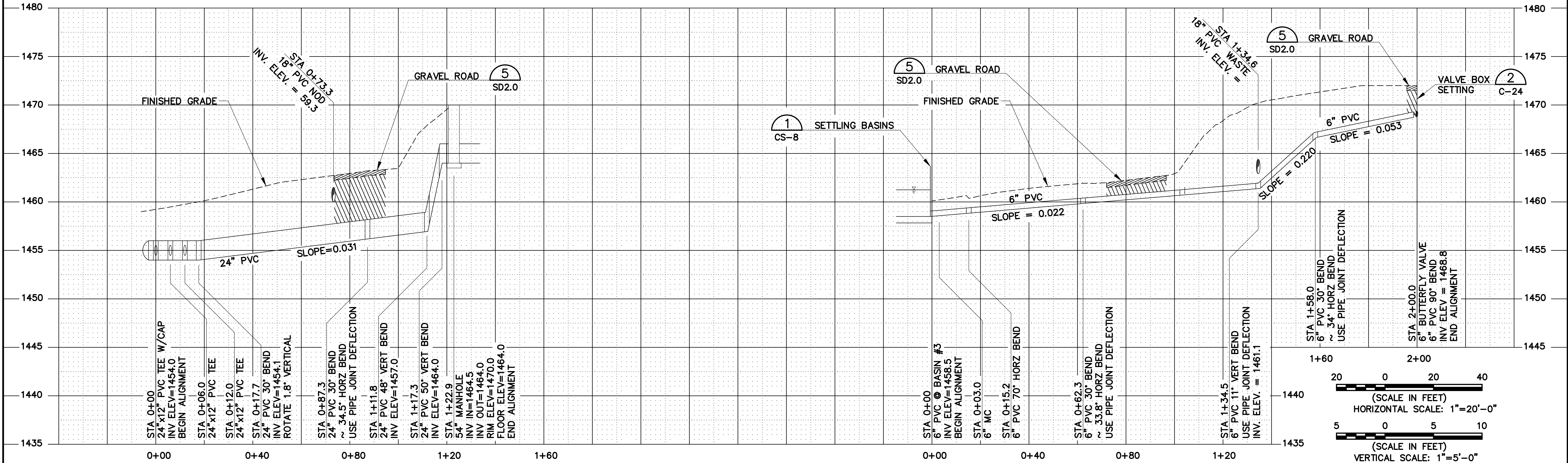
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RACEWAY REUSE TO LOWER BANK RACEWAY AERATION

RACEWAY HEADER DRAIN LINE TO SETTLING BASIN #3

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ISSUE	DATE
AS-BUILT SET	DEC. 2002
PROJECT	NUMBER
BW9C019A	9444

PLOT INFORMATION
BW9C019A

DRAWING: RACEWAY REUSE PLAN & PROFILE &
RACEWAY HEADER DRAIN
PROJECT: BLUEWATER TROUT HATCHERY
OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS

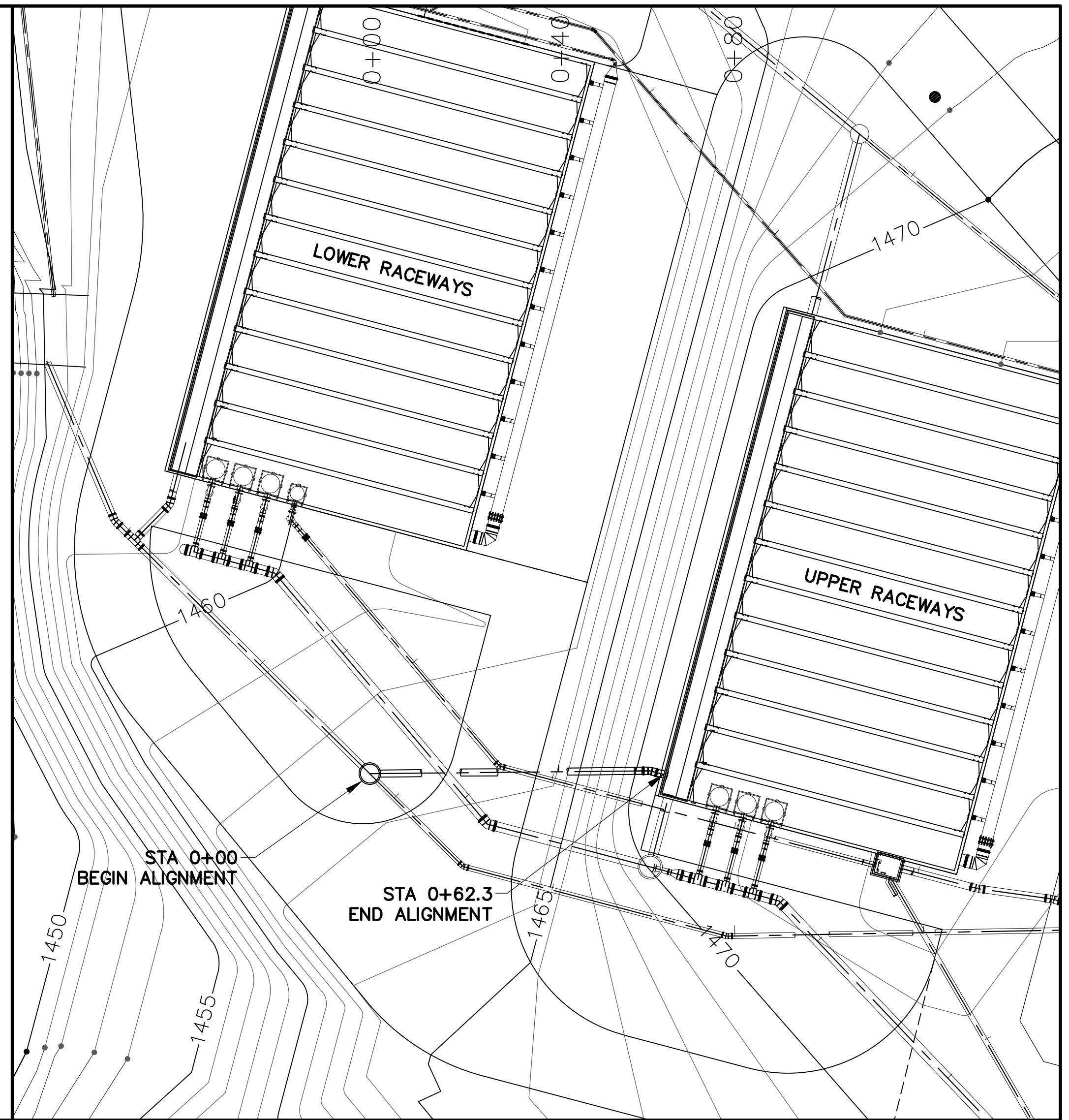
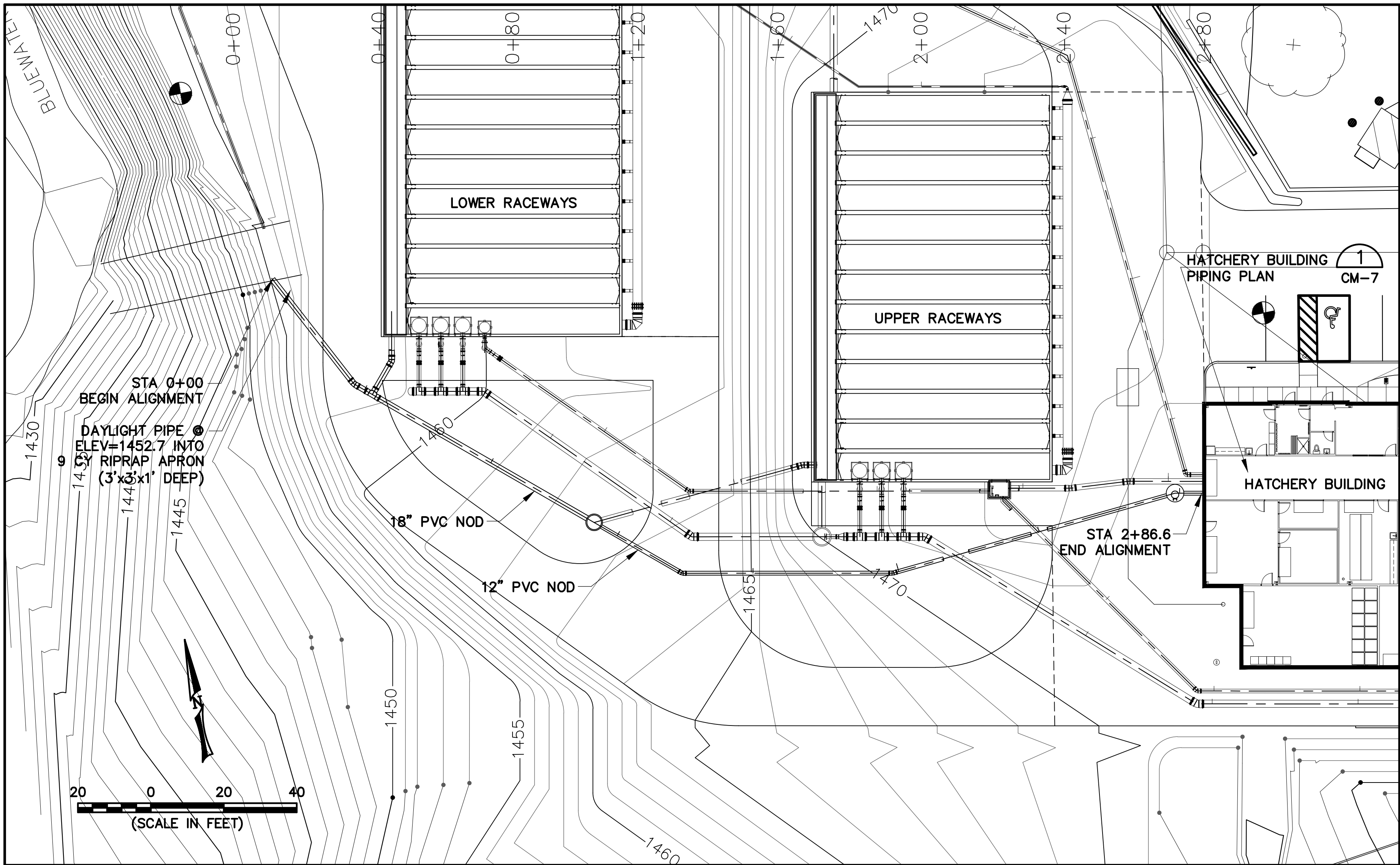
TAYLOR
ARCHITECTS

BLUEWATER
TROUT HATCHERY

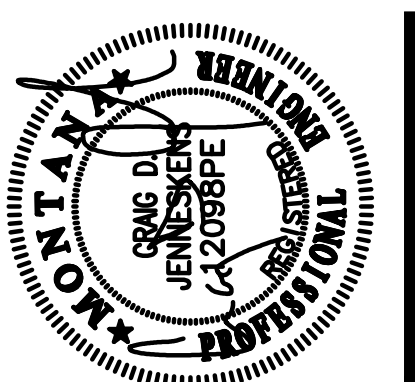
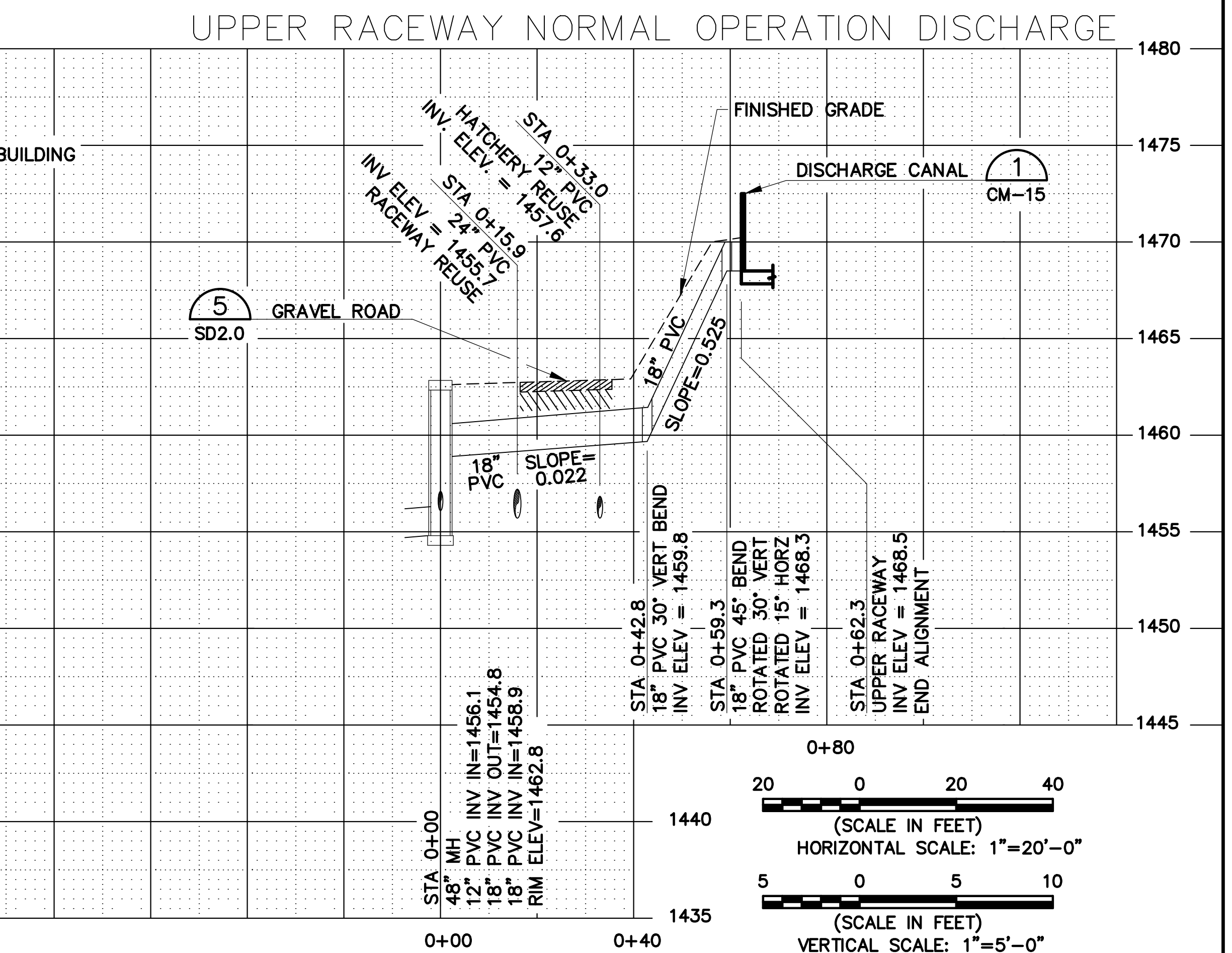
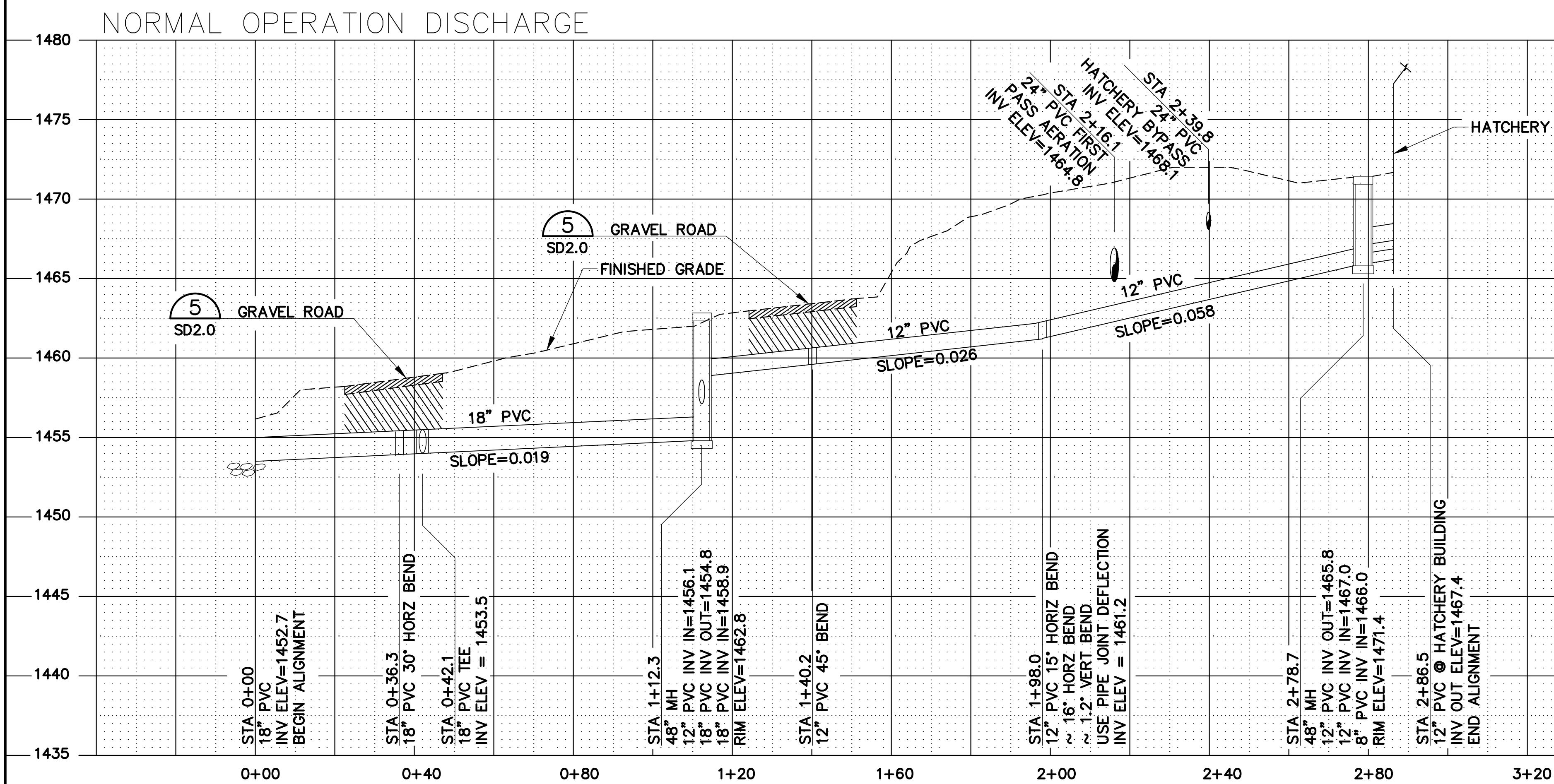
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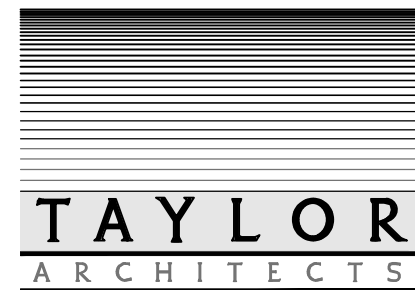
ISSUE	DATE
BID SET	17 JAN 2020
PROJECT	NUMBER
BW9C022	9444

PLOT INFORMATION
BW9C022

DRAWING: NORMAL OPERATION DISCHARGE

PROJECT: BLUEWATER TROUT HATCHERY
BOZEMAN, MONTANA

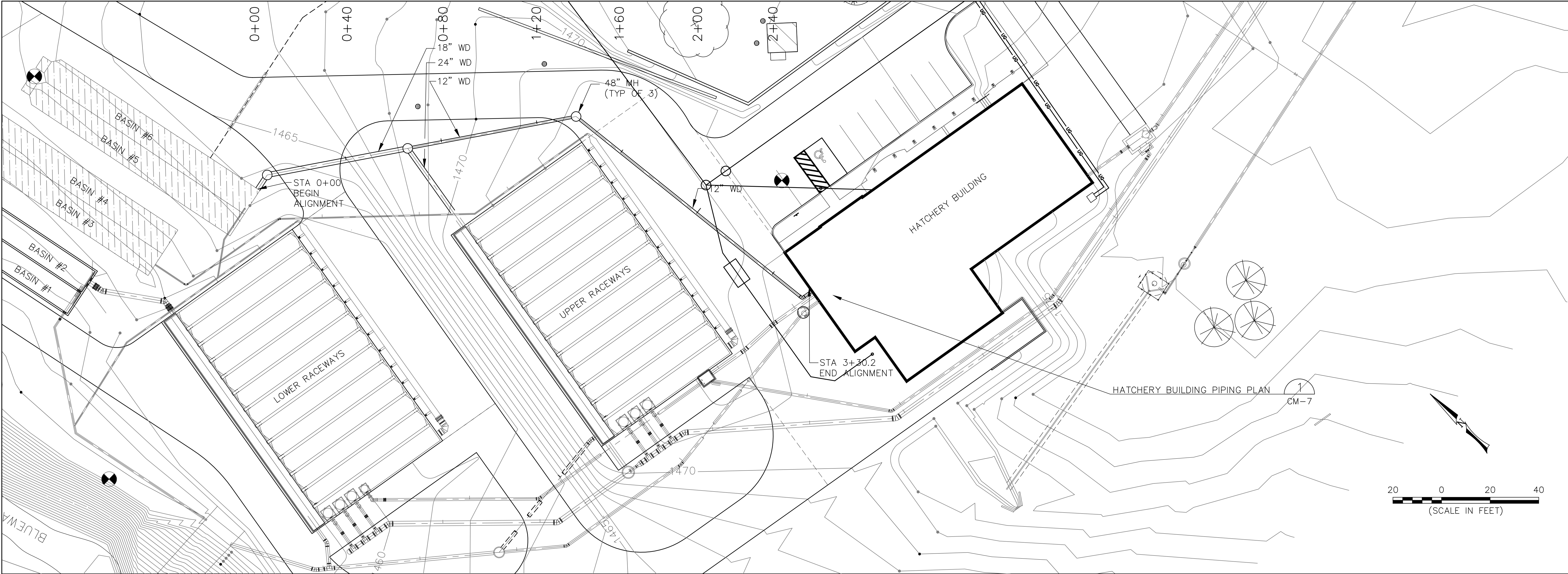
OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS



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BOZEMAN, MONTANA 59715

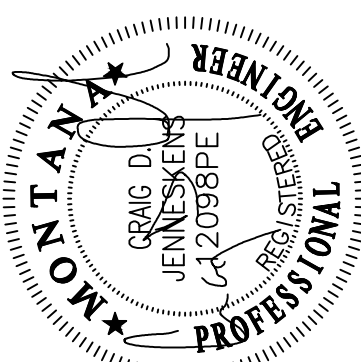
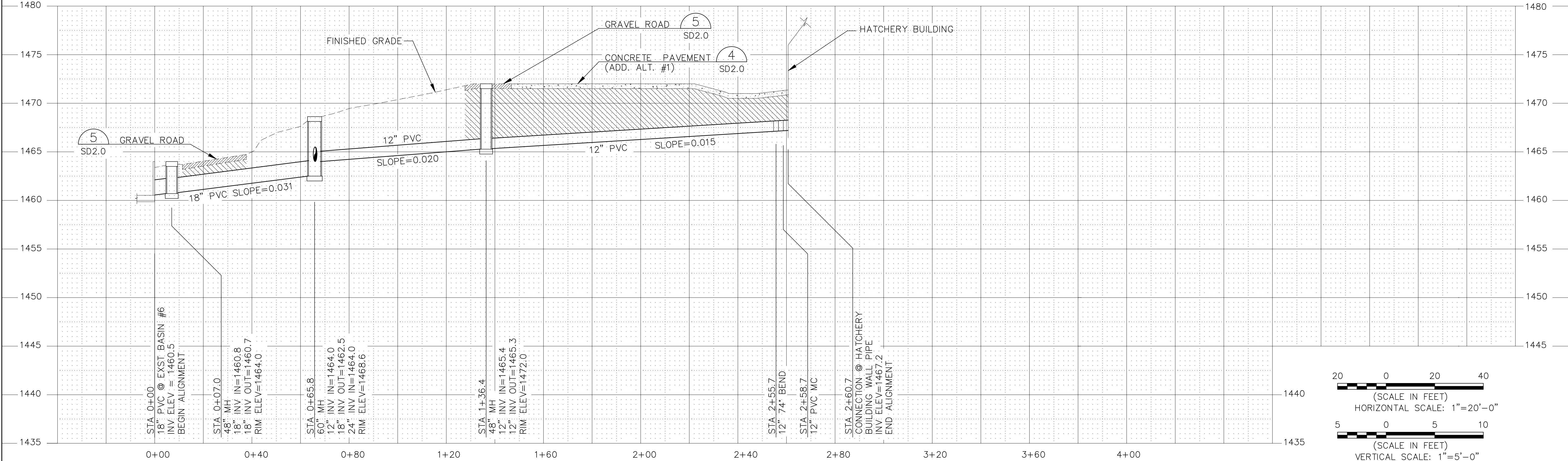
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WASTE DISCHARGE TO SETTLING BASIN #6

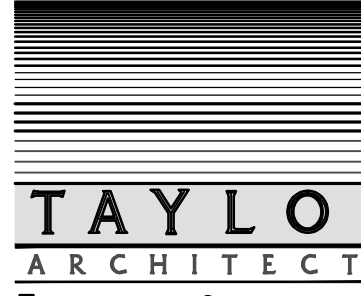
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ISSUE	DATE	PROJECT	NUMBER
AS-BUILT SET	DEC. 2002		9444

PLOT INFORMATION
BW9C020A

DRAWING: WASTE DISCHARGE PLAN & PROFILE
PROJECT: BLUEWATER TROUT HATCHERY
OWNER: MONTANA DEPT. FISH WILDLIFE & PARKS



A/E 93-35-19